CLAIMS

1. A method of depositing a layer of a MCrAlY-coating (6) on the surface (5) of an article (1), wherein the layer of the MCrAlY-coating (6) which comprises (wt.-%) 21-25% Co, 16-20% Cr, 8-12% Al, 0.01–0.5 % Y, Rest Ni is deposited by an electroplated process.

2. The method according to claim 1, wherein a layer of the MCrAlY-coating (6) which comprises (wt.-%) 23% Co, 18% Cr, 10% Al, 0.5% Y, Rest Ni is deposited by the electroplated process.

3. The method according to claim 1 or 2, wherein a layer of the MCrAlY-coating (6) having a γ/β-microstructure is deposited.

4. The method according to claim 1 or 2, wherein the deposited coating is heat-treated in vacuum, argon, hydrogen at 1140°C for 2 to 12 hours.

5. The method according to claim 1 or 2, wherein a layer of the MCrAlY-coating (6) comprising in addition (wt.-%) 0.01 to 3% Fe is deposited.

6. The method according to claim 1 or 2, wherein a layer of the MCrAlY-coating (6) comprising in addition (wt.-%) 0.5-2.5% Si, 0-1.5% Hf, 0.01-0.2% Zr either alone or in combination is deposited.

7. The method according to claim 1 or 2, wherein a layer of the MCrAlY-coating (6) comprising in addition (wt.-%) 0-2% Ta is deposited.

8. The method according to claim 1 or 2, wherein a layer of the MCrAlY-coating (6) is deposited with a thickness control of ± 20 µm of the thickness of the deposited layer (6).

9. The method according to claim 7, wherein a layer of the MCrAlY-coating (6) having a thickness in the range of 25-400 µm is deposited.

10. The method according to claim 8, wherein a layer of the MCrAlY-coating (6) having a thickness in the range of 25-300 μm is deposited.

11. The method according to claim 9, wherein a layer of the MCrAlY-coating (6) having a thickness in the range of 25-100 μm is deposited.

12. The method according to claim 10, wherein a layer of the MCrAlY-coating (6) having a thickness in the range of 25-50 μm is deposited.

13. The method according to any of the claim 1 to 11, wherein a layer of the MCrAlY-coating (6) is deposited as overlay or bond coat under a layer of a ceramic coating (7).

14. The method according to any of the claims 1 to 12, wherein a gas turbine article (1) such as blades or vanes is coated.